

TTTTTTTTTT1 BBBBBBBBBB KK KK DDDDDDDDD PBBBBBBBBB CCCCCCCCCC
TTTTTTTTTTT BBBBBBBBBB KK KK DDDDDDDDD PBBBBBBBBB CCCCCCCCCC
TT BB BB KK KK DD DD DD PP PP PP CC
TT BB BB KK KK DD DD DD PP PP PP CC
TT BB BB KK KK DD DD DD PP PP PP CC
TT BB BB KK KK DD DD DD PP PP PP CC
TT BBBBBBBBBB KKKKKKKK KK DD DD DD PBBBBBBBBB CCCCCCCCCC
TT BBBBBBBBBB KKKKKKKK KK DD DD DD PBBBBBBBBB CCCCCCCCCC
TT BB BB KK KK DD DD DD PP PP CC
TT BB BB KK KK DD DD DD PP PP CC
TT BB BB KK KK DD DD DD PP PP CC
TT BBBBBBBBBB KK KK DDDDDDDDD PP PP CCCCCCCCCC
TT BBBBBBBBBB KK KK DDDDDDDDD PP PP CCCCCCCCCC

LL IIIII SSSSSSSS
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LLLLLLLLL IIIII SSSSSSSS

1 0001 0 MODULE TBKDPC (IDENT = 'V04-000') =
2 0002 1 BEGIN
3 0003 1
4 0004 1
5 0005 1 *****
6 0006 1 *
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24 0024 1 *
25 0025 1 *
26 0026 1 *****
27 0027 1 !
28 0028 1
29 0029 1 ++
30 0030 1 FACILITY:
31 0031 1 TRACEBACK
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1 analyzes PC correlation tables for DEBUG and for symbolic
35 0035 1 traceback.
36 0036 1
37 0037 1 ENVIRONMENT: VAX/VMS, user mode, interrupts disabled.
38 0038 1
39 0039 1 AUTHOR: Carol Peters, CREATION DATE: 16 September 1977
40 0040 1
41 0041 1 Version 13
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1 Dale Roedger, 15 June 1978: Version 13
45 0045 1 Sid Maxwell 09-Dec-81
46 0046 1
47 0047 1 15-Aug-83 PS Did general clean up to use updated files
48 0048 1 from DEBUG.
49 0049 1 Jan-84 RT Changed TBKSPC TO LINE so that it only
50 0050 1 reports a match if the pc/line tables
51 0051 1 indicate that the line is "open" (i.e.,
52 0052 1 "TERM" records now close the line and
53 0053 1 prevent a match.) This fixes a problem
54 0054 1 we were seeing with RPG programs (They
55 0055 1 have code not associated with lines).
56 0056 1 --

```
58 0057 1 | TABLE OF CONTENTS:  
59 0058 1 |  
60 0059 1 |  
61 0060 1 | FORWARD ROUTINE  
62 0061 1 | TBK$PC_TO_LINE,  
63 0062 1 | PROC PC_CMD  
64 0063 1 | GET_NEXT_DPC;  
65 0064 1 |  
66 0065 1 |  
67 0066 1 | REQUIRE FILES:  
68 0067 1 |  
69 0068 1 | REQUIRE 'SRC$:TBKPROLOG.REQ';  
70 0340 1 |  
71 0341 1 |  
72 0342 1 | MACROS:  
73 0343 1 |  
74 0344 1 | MACRO  
75 0345 1 | first_dpc_datum = 2, 0, 32, 0%,  
76 0346 1 | current_byte = 0, 0, 8, 1%.  
77 0347 1 | next_uns_byte = 1, 0, 8, 0%  
78 0348 1 | next_uns_word = 1, 0, 16, 0%  
79 0349 1 | next_uns_long = 1, 0, 32, 0%  
80 0350 1 | add_one_byte = 1, 0, 8, 0%  
81 0351 1 | add_two_bytes = 2, 0, 8, 0%  
82 0352 1 | add_three_bytes = 3, 0, 8, 0%  
83 0353 1 | add_five_bytes = 5, 0, 8, 0%  
84 0354 1 |  
85 0355 1 |  
86 0356 1 | EQUATED SYMBOLS:  
87 0357 1 |  
88 0358 1 |  
89 0359 1 | The body of a PC/LINE Table Record is interpreted as a sequence of commands  
90 0360 1 | each of which supplies some information about line/statement numbers in the  
91 0361 1 | context of the preceding commands. The value is taken from DSTRECRDS.REQ.  
92 0362 1 |  
93 0363 1 |  
94 0364 1 | LITERAL  
95 0365 1 | line_open = 1;  
96 0366 1 | line_closed = 2;  
97 0367 1 |  
98 0368 1 |  
99 0369 1 | OWN STORAGE:  
100 0370 1 |  
101 0371 1 | OWN  
102 0372 1 | dst_entry : REF dst$record,  
103 0373 1 | dpc_entry : REF BLOCK [, BYTE],  
104 0374 1 | start_pc  
105 0375 1 | current_line,  
106 0376 1 | current_stmt,  
107 0377 1 | current_incr,  
108 0378 1 | current_pc,  
109 0379 1 | current_stmt_mode,  
110 0380 1 | prev_line,  
111 0381 1 | prev_stmt,  
112 0382 1 | prev_incr,  
113 0383 1 | prev_pc,  
114 0384 1 | prev_stmt_mode,
```

```
: 115 0385 1      current_mark,  
: 116 0386 1      prev_mark;  
: 117 0387 1  
: 118 0388 1      ! EXTERNAL REFERENCES:  
: 119 0389 1  
: 120 0390 1      EXTERNAL  
: 121 0391 1      tbk$module_dst : REF dst$record;  
: 122 0392 1  
: 123 0393 1  
: 124 0394 1      EXTERNAL ROUTINE  
: 125 0395 1      TBK$fake_MSG,  
: 126 0396 1      TBK$FAO_DUT : NOVALUE,  
: 127 0397 1      tbk$get_dst_rec,  
: 128 0398 1      tbk$get_nxt_dst,  
: 129 0399 1      tbk$POSITION_DST;  
:                  ! gets a DST record from a DST pointer.  
:                  ! gets next DST record in sequence  
:                  ! Set up the DST 'next' sequence.
```

```
131 0400 1 GLOBAL ROUTINE tbk$pc_to_line (match_pc_ptr, routine_address, excep_type,
132 0401 1 line_no_ptr, stmt_no_ptr) =
133 0402 1 ++
134 0403 1 FUNCTIONAL DESCRIPTION:
135 0404 1 This routine matches an absolute PC address to a line number
136 0405 1 in a FORTRAN routine. MATCH PC is the given PC,
137 0406 1 and the location pointed to by LINE_NO PTR
138 0407 1 is written as a result of delta-PC Table analysis.
139 0408 1
140 0409 1 Each PC correlation record that exists for a single routine
141 0410 1 is sequentially analyzed until the desired PC is seen.
142 0411 1
143 0412 1 If a match cannot be made because and end of routine record or
144 0413 1 an invalid record is recognized, then this routine returns
145 0414 1 FALSE.
146 0415 1
147 0416 1 FORMAL PARAMETERS:
148 0417 1
149 0418 1 match_pc_ptr - a pointer to the PC to be matched.
150 0419 1 routine_address - DST of record for enclosing routine.
151 0420 1 excep_type - the type of exception, where
152 0421 1 zero, means irrelevant;
153 0422 1 one, means trap type exception,
154 0423 1 two, means fault or abort type exception.
155 0424 1 line_no_ptr - a copy-back pointer for the line number.
156 0425 1 stmt_no_ptr - a copy-back pointer for the statement number.
157 0426 1
158 0427 1 IMPLICIT INPUTS:
159 0428 1
160 0429 1 The DST is already positioned to the record AFTER
161 0430 1 the ROUTINE record we want to look at line numbers for.
162 0431 1
163 0432 1 IMPLICIT OUTPUTS:
164 0433 1
165 0434 1 the routine get_nxt_dst is set up to next return the record after
166 0435 1 the end of routine Record or the record after the PC correlation
167 0436 1 record that matched the given parameters.
168 0437 1
169 0438 1 ROUTINE VALUE:
170 0439 1 COMPLETION CODES:
171 0440 1
172 0441 1 true, if success; false, if any error or if match cannot
173 0442 1 be made.
174 0443 1
175 0444 1 SIDE EFFECTS:
176 0445 1
177 0446 1 The DST is positioned for a GET_NXT_DST sequence.
178 0447 1
179 0448 1 --
180 0449 1
181 0450 2 BEGIN
182 0451 2
183 0452 2 LOCAL match_pc,
184 0453 2 low_routine,
185 0454 2 real_value;
186 0455 2
187 0456 2
```

```
188      0457 2      | treat traps as faults by debumping PC
189      0458 2
190      0459 2
191      0460 2      IF      .excep_type EQL trap_exc
192      0461 2      THEN    match_pc = .match_pc_ptr - 1
193      0462 2      ELSE    match_pc = .match_pc_ptr;
194      0463 2
195      0464 2      IF tbk$positon_dst(.tbk$module_dst) EQL 0
196      0465 2      THEN
197      0466 2          RETURN FALSE;
198      0467 2          dst_entry = .tbk$module_dst;
199      0468 2          low_routine = -1;
200      0469 2          REPEAT
201      0470 3          BEGIN
202      0471 3              dst_entry = tbk$get_nxt_dst(dst_entry);
203      0472 3              IF .dst_entry EQL 0
204      0473 3                  THEN
205      0474 3                      RETURN FALSE;
206      0475 3                      IF .dst_entry[dst$b_type] EQL dst$k_modend
207      0476 3                      THEN
208      0477 3                          EXITLOOP;
209      0478 3                      IF .dst_entry[dst$b_type] EQL dst$k_rtnbeg
210      0479 4                      THEN
211      0480 4                          BEGIN
212      0481 4                              IF .dst_entry[dst$l_value] LSSA .low_routine
213      0482 4                              THEN
214      0483 3                                  low_routine = .dst_entry[dst$l_value];
215      0484 2
216      0485 2
217      0486 2
218      0487 2      IF tbk$positon_dst(.tbk$module_dst) EQL 0
219      0488 2      THEN
220      0489 2          RETURN FALSE;
221      0490 2          IF get_next_dpc(dst_entry) EQL 0
222      0491 2          THEN
223      0492 2              RETURN FALSE;
224      0493 2              dpc_entry = dst_entry[dst$b_vflags];
225      0494 2
226      0495 2
227      0496 2      ++
228      0497 2      | Initialize state variables.
229      0498 2      |--
230      0499 2          current_line = 0;
231      0500 2          current_stmt = 1;
232      0501 2          current_incr = 1;
233      0502 2          current_stmt_mode = FALSE;
234      0503 2          current_pc = start_pc = .low_routine;
235      0504 2          current_mark = line_closed;
236      0505 2
237      0506 2
238      0507 2
239      0508 2      ++
240      0509 2      | Call a routine that processes all PC correlation commands
241      0510 2      | until a delta-PC command is seen. Then process that
242      0511 2      | delta-PC command and return to this routine. If the processing
243      0512 2      | is generally successful, return true, otherwise return false.
244      0513 2      |--
```

```
245 0514 2      REPEAT
246 0515 2      BEGIN
247 0516 3
248 0517 3      prev_line = .current_line;
249 0518 3      prev_stmt = .current_stmt;
250 0519 3      prev_incr = .current_incr;
251 0520 3      prev_stmt_mode = .current_stmt_mode;
252 0521 3      prev_pc = .current_pc;
253 0522 3      prev_mark = .current_mark;
254 0523 3
255 0524 3
256 0525 3      IF NOT proc_pc_cmd ( )
257 0526 3      THEN
258 0527 3          RETURN FALSE;
259 0528 3
260 0529 3
261 0530 3      | Report a match to a line if:
262 0531 3          | - The PC is within the range given by the previous
263 0532 3          |     PC and the current PC, and
264 0533 3          | - The line is marked as being OPEN.
265 0534 3
266 0535 4      IF ((.prev_pc LEQA .match_pc) AND
267 0536 4          (.match_pc LSSA .current_pc) AND
268 0537 4          (.prev_mark EQL line_open))
269 0538 5      THEN BEGIN .stmt_no_ptr = (IF
270 0539 5          .prev_stmt EQL 1
271 0540 4              THEN 0
272 0541 4              ELSE .prev_stmt);
273 0542 4          .line_no_ptr = .prev_line;
274 0543 4          RETURN TRUE
275 0544 3
276 0545 3      END;
277 0546 3      |++
278 0547 3          | Found nothing this round; continue trying.
279 0548 3      |--
280 0549 3
281 0550 1      END;
```

```
:TITLE TBKDPC
:IDENT \V04-000\
.PSECT TBKSOWN,NOEXE, PIC,2
```

```
00000 DST_ENTRY:    BLKB 4
00004 DPC_ENTRY:    BLKB 4
00008 START_PC:     BLKB 4
0000C CURRENT_LINE: BLKB 4
00010 CURRENT_STMT: BLKB 4
00014 CURRENT_INCR: BLKB 4
00018 CURRENT_PC:   BLKB 4
```

0001C CURRENT_STMT_MODE: .BLKB 4
 00020 PREV_LINE: .BLKB 4
 00024 PREV_STMT: .BLKB 4
 00028 PREV_INCR: .BLKB 4
 0002C PREV_PC: .BLKB 4
 00030 PREV_STMT_MODE: .BLKB 4
 00034 CURRENT_MARK: .BLKB 4
 00038 PREV_MARK: .BLKB 4

.EXTRN TBK\$MODULE_DST, TBK\$FAKE_MSG
 .EXTRN TBK\$FAO_OUT, TBK\$GET_DST_REC
 .EXTRN TBK\$GET_NXT_DST
 .EXTRN TBK\$POSITION_DST

.PSECT TBK\$CODE,NOWRT, SHR, PIC,0

53	04	AC	00	007C 000000	00 9E 00002	.ENTRY TBK\$PC_TO_LINE, Save R2,R3,R4,R5,R6	: 0400
			55	00000000G	00 9E 00009	MOVAB TBK\$POSITION_DST, R6	
			54	00000000G	CF 9E 00010	MOVAB TBK\$MODULE_DST, R5	
			01	0000	AC D1 00015	MOVAB DST_ENTRY, R4	
				0C	07 12 00019	CMPL EXCEP_TYPE, #1	0459
					01 C3 0001B	BNEQ 1S	
					04 11 00020	SUBL3 #1, MATCH_PC_PTR, MATCH_PC	0460
			53	04	AC D0 00022	BRB 2S	
					65 DD 00026	MOVL MATCH_PC_PTR, MATCH_PC	0461
					1\$: 65 DD 00026	PUSHL TBK\$MODULE_DST	0463
			66	01	FB 00028	CALLS #1, TBK\$POSITION_DST	
					50 D5 0002B	TSTL R0	
					7D 13 0002D	BEQL 6S	
			64	01	CE 00032	MOVL TBK\$MODULE_DST, DST_ENTRY	0466
			52	01	CE 00032	MNEGL #1, LOW_ROUTINE	0467
				54	DD 00035	PUSHL R4	0470
			00000000G	00	01 FB 00037	CALLS #1, TBK\$GET_NXT_DST	
				64	50 D0 0003E	MOVL R0, DST_ENTRY	
					69 13 00041	BEQL 6S	0471
			BD	8F	01 A0 91 00043	CMPB 1(R0), #189	0474
					13 13 00048	BEQL 4S	
			BE	8F	01 A0 91 0004A	CMPB 1(R0), #190	0477
					E4 12 0004F	BNEQ 3S	
			52	03	A0 D1 00051	CMPL 3(R0), LOW_ROUTINE	0480
				DE	1E 00055	BGEQU 3S	
			52	03	A0 D0 00057	MOVL 3(R0), LOW_ROUTINE	0482
				D8	11 0005B	BRB 3S	0467
			66	01	FB 0005D	PUSHL TBK\$MODULE_DST	0487
				50	DD 0005D	CALLS #1, TBK\$POSITION_DST	
				46	D5 00062	TSTL R0	
				54	13 00064	BEQL 6S	
			0000V	CF	54 DD 00066	PUSHL R4	0490
					01 FB 00068	CALLS #1, GET_NEXT_DPC	

04	A4	64	0C	50 D5 0006D	TSTL	R0	
10	A4	01	A4	3B 13 0006F	BEQL	6\$	
14	A4	01	A4	02 C1 00071	ADDL3	#2, DST_ENTRY, DPC_ENTRY	0493
			01	A4 D4 00076	CLRL	CURRENT_LINE	0499
08	A4	1C	A4	01 D0 00079	MOVL	#1, CURRENT_STMT	0500
18	A4		A4	01 D0 0007D	MOVL	#1, CURRENT_INCR	0501
34	A4		A4	02 D0 00081	CLRL	CURRENT_STMT_MODE	0502
20	A4		A4	52 D0 00084	MOVL	LOW_ROUTINE, START_PC	0503
30	A4	0C	A4	52 D0 00088	MOVL	LOW_ROUTINE, CURRENT_PC	
28	A4	1C	A4	02 D0 0008C	MOVL	#2, CURRENT_MARK	0504
38	A4	14	A4	7D 00090	MOVQ	CURRENT_LINE, PREV_LINE	0517
0000V	CF	34	A4	00 D0 00095	MOVL	CURRENT_STMT_MODE, PREV_STMT_MODE	0520
	03		A4	7D 0009A	MOVQ	CURRENT_INCR, PREV_INCR	0519
			A4	D0 0009F	MOVL	CURRENT_MARK, PREV_MARK	0522
			00	FB 000A4	CALLS	#0, PROC_PC_CMD	0525
			50	E8 000A9	BLBS	R0, 7\$	
			50	D4 000AC	CLRL	R0	0527
			04	000AE	RET		
18	A4	53	2C	A4 D1 000AF	CMPL	PREV_PC, MATCH_PC	0535
			7\$:	DB 1A 000B3	BGTRU	5\$	
				53 D1 000B5	CMPL	MATCH_PC, CURRENT_PC	0536
				D5 1E 000B9	BGEQU	5\$	
		01	38	A4 D1 000BB	CMPL	PREV_MARK, #1	0537
				CF 12 000BF	BNEQ	5\$	
		01	24	A4 D1 000C1	CMPL	PREV_STMT, #1	0538
				04 12 000C5	BNEQ	8\$	
				50 D4 000C7	CLRL	R0	
				04 11 000C9	BRB	9\$	
		14	50	24 A4 D0 000CB	MOVL	PREV_STMT, R0	0540
			8\$:	50 D0 000CF	MOVL	R0, @STMT_NO_PTR	0538
		10	BC	20 A4 D0 000D3	MOVL	PREV_LINE, @LINE_NO_PTR	0541
			01	D0 000D8	MOVL	#1, R0	0542
			04	000DB	RET		0550

; Routine Size: 220 bytes, Routine Base: TBK\$CODE + 0000

```
283 0551 1 ROUTINE PROC_PC_CMD =  
284 0552 1 ++  
285 0553 1 Functional description:  
286 0554 1 This routine processes PC correlation commands until a  
287 0555 1 delta-Pc command is seen. The delta-Pc command is also processed.  
288 0556 1 Then this routine returns with all the contents of the  
289 0557 1 parameter pointers updated appropriately.  
290 0558 1  
291 0559 1 This routine moves from PC record to PC record as necessary. If  
292 0560 1 no more records are seen, this routine returns false. If  
293 0561 1 an error is seen in a PC correlation record, then this  
294 0562 1 routine sets the contents of line_ptr to zero and  
295 0563 1 returns false.  
296 0564 1  
297 0565 1 Inputs:  
298 0566 1  
299 0567 1 Implicit inputs:  
300 0568 1 None  
301 0569 1  
302 0570 1 Implicit outputs:  
303 0571 1 the contents of the line pointer, the increment pointer, the  
304 0572 1 statement pointer, the .next_pc pointer, dpc_entry, and possible  
305 0573 1 dst_entry are updated to new values.  
306 0574 1  
307 0575 1 Routine value:  
308 0576 1 TRUE if all goes well, otherwise FALSE.  
309 0577 1  
310 0578 1 Side effects:  
311 0579 1 More of the correlation records for this routine are read.  
312 0580 1 --  
313 0581 1  
314 0582 2 BEGIN  
315 0583 2  
316 0584 2 REPEAT  
317 0585 3 BEGIN  
318 0586 3  
319 0587 3  
320 0588 3 ! See whether the current record is exhausted. If  
321 0589 3 so, get a new record. If none are available,  
322 0590 3 return FALSE. Otherwise, set dpc_entry to point to  
323 0591 3 the address of the third byte of the correlation record.  
324 0592 3  
325 0593 4 IF dpc_entry[current_byte] GTR (.dst_entry[dst$b_length] +  
326 0594 4 dst_entry[dst$b_length])  
327 0595 3 THEN  
328 0596 4 BEGIN  
329 0597 4 IF NOT get_next_dpc(dst_entry)  
330 0598 4 THEN  
331 0599 4 RETURN FALSE  
332 0600 4  
333 0601 4  
334 0602 4 ELSE  
335 0603 4 dpc_entry = dst_entry [dst$b_vflags];  
336 0604 4 END;  
337 0605 4  
338 0606 4  
339 0607 3 ! Now process each command, either PC correlation or  
! delta-Pc one at a time. Once a delta-Pc command is
```

```
340 0608 3 | processed, control returns from this routine to its
341 0609 3 | caller.
342 0610 3
343 0611 3 CASE .dpc_entry [current_byte] FROM 1 TO dst$k_pccor_high OF
344 0612 3   SET
345 0613 3
346 0614 3
347 0615 3   | Read the next two bytes as an unsigned word
348 0616 3   | representing a delta-PC value. Update the next_pc
349 0617 3   | and update the dpc_entry address.
350 0618 3
351 0619 3   [dst$k_delta_pc_w]:
352 0620 4     BEGIN
353 0621 4       IF .current_stmt_mode
354 0622 4       THEN
355 0623 4         current_stmt = .current_stmt + 1
356 0624 4       ELSE
357 0625 4         current_line = .current_line +
358 0626 4           .current_incr;
359 0627 4
360 0628 4   current_mark = line_open;
361 0629 4   current_pc = .current_pc +
362 0630 4     .dpc_entry [next_uns_word];
363 0631 4   dpc_entry = dpc_entry [add_three_bytes];
364 0632 4   RETURN TRUE;
365 0633 3   END;
366 0634 3
367 0635 3
368 0636 3   | Read the next four bytes as an unsigned longword
369 0637 3   | representing a delta-PC value. Update the next_pc
370 0638 3   | and update the dpc_entry address.
371 0639 3
372 0640 3   [dst$k_delta_pc_l]:
373 0641 4     BEGIN
374 0642 4       IF .current_stmt_mode
375 0643 4       THEN
376 0644 4         current_stmt = .current_stmt + 1
377 0645 4       ELSE
378 0646 4         current_line = .current_line +
379 0647 4           .current_incr;
380 0648 4
381 0649 4   current_mark = line_open;
382 0650 4   current_pc = .current_pc +
383 0651 4     .dpc_entry [next_uns_long];
384 0652 4   dpc_entry = dpc_entry [add_five_bytes];
385 0653 4   RETURN TRUE;
386 0654 4   END;
387 0655 3
388 0656 3
389 0657 3   | Increase the current line number by the value
390 0658 3   | contained in the next unsigned byte.
391 0659 3
392 0660 3   [dst$k_incr_linum]:
393 0661 4     BEGIN
394 0662 4       current_line = .current_line + .dpc_entry [next_uns_byte];
395 0663 4       IF .current_stmt_mode THEN current_stmt = 1;
396 0664 4       dpc_entry = dpc_entry [add_two_bytes];
```

```
397      0665 3
398      0666 3
399      0667 3
400      0668 3
401      0669 3
402      0670 3
403      0671 3
404      0672 4
405      0673 4
406      0674 4
407      0675 4
408      0676 3
409      0677 3
410      0678 3
411      0679 3
412      0680 3
413      0681 3
414      0682 3
415      0683 4
416      0684 4
417      0685 4
418      0686 4
419      0687 3
420      0688 3
421      0689 3
422      0690 3
423      0691 3
424      0692 3
425      0693 3
426      0694 4
427      0695 4
428      0696 4
429      0697 4
430      0698 3
431      0699 3
432      0700 3
433      0701 3
434      0702 3
435      0703 3
436      0704 3
437      0705 4
438      0706 4
439      0707 4
440      0708 4
441      0709 3
442      0710 3
443      0711 3
444      0712 3
445      0713 3
446      0714 3
447      0715 4
448      0716 4
449      0717 4
450      0718 4
451      0719 3
452      0720 3
453      0721 3

      END;

      | Increase the current line number by the value
      | contained in the next unsigned word.

      [dst$k_incr_lnum_w]:
      BEGIN
          IF .current_stmt_mode THEN current_stmt = 1;
          current_line = .current_line + .dpc_entry [next_uns_word];
          dpc_entry = dpc_entry [add_three_bytes];
      END;

      | Increase the current line number by the value
      | contained in the next unsigned longword.

      [dst$k_incr_lnum_l]:
      BEGIN
          IF .current_stmt_mode THEN current_stmt = 1;
          current_line = .current_line + .dpc_entry [next_uns_long];
          dpc_entry = dpc_entry [add_five_bytes];
      END;

      | Change the line increment from its present value to
      | the value contained in the next unsigned byte.

      [dst$k_set_lnum_incr]:
      BEGIN
          IF .current_stmt_mode THEN current_stmt = 1;
          current_incr = .dpc_entry [next_uns_byte];
          dpc_entry = dpc_entry [add_two_bytes];
      END;

      | Change the line increment from its present value to
      | the value contained in the next word.

      [dst$k_set_lnum_incr_w]:
      BEGIN
          IF .current_stmt_mode THEN current_stmt = 1;
          current_incr = .dpc_entry [next_uns_word];
          dpc_entry = dpc_entry [add_three_bytes];
      END;

      | Revert to a line increment of value 1.

      [dst$k_reset_lnum_incr]:
      BEGIN
          IF .current_stmt_mode THEN current_stmt = 1;
          current_incr = 1;
          dpc_entry = dpc_entry [add_one_byte];
      END;

      [dst$k_beg_stmt_mode]:
```

```
454 0722 4
455 0723 4
456 0724 4
457 0725 5
458 0726 5
459 0727 5
460 0728 4
461 0729 4
462 0730 4
463 0731 4
464 0732 4
465 0733 4
466 0734 4
467 0735 4
468 0736 4
469 0737 4
470 0738 4
471 0739 4
472 0740 3
473 0741 3
474 0742 3
475 0743 4
476 0744 4
477 0745 4
478 0746 5
479 0747 5
480 0748 5
481 0749 4
482 0750 4
483 0751 4
484 0752 4
485 0753 3
486 0754 3
487 0755 3
488 0756 4
489 0757 4
490 0758 4
491 0759 5
492 0760 5
493 0761 5
494 0762 4
495 0763 4
496 0764 4
497 0765 4
498 0766 3
499 0767 3
500 0768 3
501 0769 4
502 0770 4
503 0771 4
504 0772 5
505 0773 5
506 0774 5
507 0775 4
508 0776 4
509 0777 4
510 0778 4

        BEGIN
        IF .current_mark NEQ line_open
        THEN
            BEGIN
            TBK$FAKE MSG(TBK$_INVDSTREC,0);
            RETURN FALSE;
            END;

            current_stmt = 1;
            current_stmt_mode = TRUE;
            dpc_entry = dpc_entry[add_one_byte];
            END;

        [dst$k_end_stmt_mode]:
        BEGIN
        current_stmt = 1;
        current_stmt_mode = FALSE;
        dpc_entry = dpc_entry[add_one_byte];
        END;

        [dst$k_set_linum_b]:
        BEGIN
        IF .current_mark NEQ line_closed
        THEN
            BEGIN
            TBK$FAKE MSG(TBK$_INVDSTREC,0);
            RETURN FALSE;
            END;

            current_line = .dpc_entry[next_uns_byte];
            dpc_entry = dpc_entry[add_two_bytes];
            END;

        [dst$k_set_linum]:
        BEGIN
        IF .current_mark NEQ line_closed
        THEN
            BEGIN
            TBK$FAKE MSG(TBK$_INVDSTREC,0);
            RETURN FALSE;
            END;

            current_line = .dpc_entry[next_uns_word];
            dpc_entry = dpc_entry[add_three_bytes];
            END;

        [dst$k_set_linum_l]:
        BEGIN
        IF .current_mark NEQ line_closed
        THEN
            BEGIN
            TBK$FAKE MSG(TBK$_INVDSTREC,0);
            RETURN FALSE;
            END;

            current_line = .dpc_entry[next_uns_long];
            dpc_entry = dpc_entry[add_five_bytes];
            END;
```

```
511 0779 3
512 0780 3
513 0781 3
514 0782 4
515 0783 4
516 0784 4
517 0785 3
518 0786 3
519 0787 3
520 0788 4
521 0789 4
522 0790 4
523 0791 5
524 0792 5
525 0793 5
526 0794 4
527 0795 4
528 0796 4
529 0797 4
530 0798 4
531 0799 3
532 0800 3
533 0801 3
534 0802 4
535 0803 4
536 0804 4
537 0805 5
538 0806 5
539 0807 5
540 0808 4
541 0809 4
542 0810 4
543 0811 4
544 0812 4
545 0813 3
546 0814 3
547 0815 3
548 0816 4
549 0817 4
550 0818 4
551 0819 5
552 0820 5
553 0821 5
554 0822 4
555 0823 4
556 0824 4
557 0825 4
558 0826 4
559 0827 3
560 0828 3
561 0829 3
562 0830 3
563 0831 3
564 0832 3
565 0833 4
566 0834 4
567 0835 4

        END;

        [dst$K_set_stmtnum]:
        BEGIN
            current_stmt = .dpc_entry[next_uns_word];
            dpc_entry = dpc_entry[add_three_bytes];
        END;

        [dst$K_set_pc]:
        BEGIN
            IF .current_mark NEQ line_closed
            THEN
                BEGIN
                    TBK$FAKE_MSG(TBK$_INVDSTREC,0);
                    RETURN FALSE;
                END;

            current_pc = .start_pc +
                         .dpc_entry[next_uns_byte];
            dpc_entry = dpc_entry[add_two_bytes];
        END;

        [dst$K_set_pc_w]:
        BEGIN
            IF .current_mark NEQ line_closed
            THEN
                BEGIN
                    TBK$FAKE_MSG(TBK$_INVDSTREC,0);
                    RETURN FALSE;
                END;

            current_pc = .start_pc +
                         .dpc_entry[next_uns_word];
            dpc_entry = dpc_entry[add_three_bytes];
        END;

        [dst$K_set_pc_l]:
        BEGIN
            IF .current_mark NEQ line_closed
            THEN
                BEGIN
                    TBK$FAKE_MSG(TBK$_INVDSTREC,0);
                    RETURN FALSE;
                END;

            current_pc = .start_pc +
                         .dpc_entry[next_uns_long];
            dpc_entry = dpc_entry[add_five_bytes];
        END;

        ; Set the current PC value to an absolute address.

        [DST$K_SET_ABS_PC]:
        BEGIN
            IF .CURRENT_MARK NEQ LINE_CLOSED
            THEN
```

```
568 0836 5
569 0837 5
570 0838 5
571 0839 4
572 0840 4
573 0841 4
574 0842 4
575 0843 3
576 0844 3
577 0845 3
578 0846 4
579 0847 4
580 0848 4
581 0849 4
582 0850 4
583 0851 4
584 0852 3
585 0853 3
586 0854 3
587 0855 4
588 0856 4
589 0857 4
590 0858 4
591 0859 4
592 0860 4
593 0861 3
594 0862 3
595 0863 3
596 0864 4
597 0865 4
598 0866 4
599 0867 4
600 0868 4
601 0869 4
602 0870 4
603 0871
604 0872
605 0873
606 0874
607 0875
608 0876
609 0877
610 0878
611 0879
612 0880
613 0881
614 0882
615 0883
616 0884
617 0885
618 0886
619 0887
620 0888
621 0889
622 0890
623 0891
624 0892

      BEGIN
      TBK$FAKE MSG(TBK$_INVDSTREC,0);
      RETURN FALSE;
      END;

      CURRENT PC = .DPC_ENTRY[NEXT_UNS_LONG];
      DPC_ENTRY = DPC_ENTRY[ADD_FIVE_BYTES];
      END;

[dst$k_term]:
      BEGIN
      current_pc = .current_pc +
      .dpc_entry[next_uns_byte];
      current_mark = line_closed;
      dpc_entry = dpc_entry[add_two_bytes];
      RETURN TRUE;
      END;

[dst$k_term_w]:
      BEGIN
      current_pc = .current_pc +
      .dpc_entry[next_uns_word];
      current_mark = line_closed;
      dpc_entry = dpc_entry[add_three_bytes];
      RETURN TRUE;
      END;

[dst$k_term_l]:
      BEGIN
      current_pc = .current_pc +
      .dpc_entry[next_uns_long];
      current_mark = line_closed;
      dpc_entry = dpc_entry[add_five_bytes];
      RETURN TRUE;
      END;

| This is a standard delta_pc command if the value is
| less than or equal to zero. Otherwise it is an error.
| If okay, set next_pc value, update the dpc_entry,
| and return with success.

[OUTRANGE]:
      BEGIN
      IF .dpc_entry[current_byte] LSS
      dst$k_delta_pc_low
      OR .dpc_entry[current_byte] GTR
      dst$k_delta_pc_high
      THEN
      BEGIN
      TBK$FAKE MSG(TBK$_INVDSTREC,0);
      RETURN FALSE;
      END;

      IF .current_stmt_mode
      THEN
      current_stmt = .current_stmt + 1
```

```

625 0893 4
626 0894 4
627 0895 4
628 0896 4
629 0897 4
630 0898 4
631 0899 4
632 0900 4
633 0901 4
634 0902 4
635 0903 4
636 0904 4
637 0905 2
638 0906 2
639 0907 2
640 0908 1

        ELSE
        current_line = .current_line +
                      .current_incr;

        current_pc = .current_pc -
                      dpc_entry [current_byte];
        current_mark = line_open;
        dpc_entry = dpc_entry [add_one_byte];
        RETURN TRUE;
        END;

        TES;
        END;
        RETURN 0;
        END;

```

000C 00000 PROC_PC_CMD:									
									0551
	53	0000	CF	9E	00002		WORD	Save R2,R3	
	50	FC	B3	9A	00007	1\$:	MOVAB	DPC_ENTRY, R3	0594
	50	FC	A3	C0	0000B		MOVZBL	ADST_ENTRY, R0	
	50		63	D1	0000F		ADDL2	DST_ENTRY, R0	0593
			13	15	00012		CMPL	DPC_ENTRY, R0	
			FC	A3	9F	00014	BLEQ	3\$	
					01	FB	PUSHAB	DST_ENTRY	0597
					50	00017	CALLS	#1, GET_NEXT_DPC	
					03	EB	BLBS	R0, 2\$	
					01E0	31	BRW	56\$	
	63	FC	A3	02	C1	00022	ADDL3	#2, DST_ENTRY, DPC_ENTRY	0602
				52	63	00027	MOVL	DPC_ENTRY, R2	0611
				14	01	8F	CASEB	(R2), #1, #20	
00BC	0098	0089	004F	0002E	4\$:		WORD	8\$-4\$, -	
00FB	00E8	00DA	00CB	00036				16\$-4\$, -	
016D	0155	013D	0116	0003E				17\$-4\$, -	
017F	01B5	01A4	0136	00046				21\$-4\$, -	
0126	0106	00AD	006F	0004E				23\$-4\$, -	
				01C4	00056			25\$-4\$, -	
								27\$-4\$, -	
								29\$-4\$, -	
								33\$-4\$, -	
								39\$-4\$, -	
								41\$-4\$, -	
								44\$-4\$, -	
								37\$-4\$, -	
								51\$-4\$, -	
								52\$-4\$, -	
								46\$-4\$, -	
								13\$-4\$, -	
								19\$-4\$, -	
								31\$-4\$, -	
								35\$-4\$, -	
								53\$-4\$, -	
									0882

05	01	03	15	0005A	BLEQ	5\$	0890
	54	18	A3	E9 0005C	BRW	47\$	0892
	0C	A3	D6	00063	BLBC	CURRENT_STMT_MODE, 6\$	
		05	11	00066	INCL	CURRENT_STMT	
08	A3	10	A3	C0 00068	BRB	7\$	0895
50	00	B3	98	0006D	ADDL2	CURRENT_INCR, CURRENT_LINE	0898
14	A3	50	C2	00071	CVTBL	ADPC_ENTRY, R0	
30	A3	01	D0	00075	SUBL2	R0, CURRENT_PC	
		63	D6	00079	MOVL	#1, CURRENT_MARK	0899
		1D	11	0007B	INCL	DPC_ENTRY	0900
05		18	A3	E9 0007D	BRB	12\$	0901
	0C	A3	D6	00081	BLBC	CURRENT_STMT_MODE, 9\$	0621
		05	11	00084	INCL	CURRENT_STMT	0623
08	A3	10	A3	C0 00086	BRB	10\$	0626
30	A3	01	D0	0008B	ADDL2	CURRENT_INCR, CURRENT_LINE	0628
50	01	A2	3C	0008F	MOVL	#1, CURRENT_MARK	
14	A3	50	C0	00093	MOVZWL	1(R2), R0	0630
63		03	C0	00097	ADDL2	R0, CURRENT_PC	
		161	31	0009A	BRB	#3, DPC_ENTRY	0631
05		18	A3	E9 0009D	BLBC	55\$	0632
	0C	A3	D6	000A1	INCL	CURRENT_STMT_MODE, 14\$	0642
		05	11	000A4	BRB	CURRENT_STMT	0644
08	A3	10	A3	C0 000A6	ADDL2	15\$	0647
30	A3	01	D0	000AB	MOVL	CURRENT_INCR, CURRENT_LINE	0649
14	A3	01	A2	C0 000AF	ADDL2	#1, CURRENT_MARK	
	0144		31	000B4	BRW	1(R2), CURRENT_PC	0651
50	01	A2	9A	000B7	MOVZBL	54\$	0652
08	A3	50	C0	000BB	ADDL2	1(R2), R0	0662
7F	18	A3	E9 000BF	BLBC	RO, CURRENT_LINE		
0C	A3	01	D0	000C3	MOVL	CURRENT_STMT_MODE, 32\$	0663
		79	11	000C7	BRB	#1, CURRENT_STMT	
04	04	18	A3	E9 000C9	BLBC	32\$	0664
0C	A3	01	D0	000CD	MOVL	CURRENT_STMT_MODE, 18\$	0673
50	01	A2	3C	000D1	MOVZWL	#1, CURRENT_STMT	
08	A3	50	C0	000D5	ADDL2	1(R2), R0	0674
		77	11	000D9	BRB	RO, CURRENT_LINE	
04	04	18	A3	E9 000DB	BLBC	34\$	0675
0C	A3	01	D0	000DF	MOVL	CURRENT_STMT_MODE, 20\$	0684
08	A3	01	A2	C0 000E3	ADDL2	#1, CURRENT_STMT	
		78	11	000E8	BRB	1(R2), CURRENT_LINE	0685
04	04	18	A3	E9 000EA	BLBC	36\$	0686
0C	A3	01	D0	000EE	MOVL	CURRENT_STMT_MODE, 22\$	0695
10	A3	01	A2	9A 000F2	MOVZBL	#1, CURRENT_STMT	
		49	11	000F7	BRB	1(R2), CURRENT_INCR	0696
04	04	18	A3	E9 000F9	BLBC	32\$	0697
0C	A3	01	D0	000FD	MOVL	CURRENT_STMT_MODE, 24\$	0706
10	A3	01	A2	3C 00101	MOVZWL	#1, CURRENT_STMT	
		61	11	00106	BRB	1(R2), CURRENT_INCR	0707
04	04	18	A3	E9 00108	BLBC	38\$	0708
0C	A3	01	D0	0010C	MOVL	CURRENT_STMT_MODE, 26\$	0716
10	A3	01	D0	00110	MOVZWL	#1, CURRENT_STMT	
		1A	11	00114	BRB	#1, CURRENT_INCR	0717
01	30	A3	D1	00116	CMPL	30\$	0718
	03		13	0011A	BEQL	CURRENT_MARK, #1	0723
0C	A3	01	D0	0011F	BRW	28\$	
	0080		31	0011C	MOVL	45\$	
						#1, CURRENT_STMT	0730

18	A3	01	D0 00123	MOVL	#1 CURRENT_STMT_MODE	0731
		07	11 00127	BRB	30\$	0732
0C	A3	01	D0 00129	MOVL	#1 CURRENT_STMT	0737
		18	A3 D4 0012D	CLRL	CURRENT_STMT_MODE	0738
			63 D6 00130	INCL	DPC_ENTRY	0739
			65 11 00132	BRB	43\$	0611
		02	30 A3 D1 00134	CMPL	CURRENT_MARK, #2	0744
			79 12 00138	BNEQ	47\$	
08	A3	01	D0 0013A	MOVL	DPC_ENTRY, R0	0751
			A0 9A 0013D	MOVZBL	1(R0), CURRENT_LINE	
		02	30 A3 D1 00142	BRB	40\$	0752
			69 12 00148	CMPL	CURRENT_MARK, #2	0757
08	A3	01	D0 0014A	BNEQ	47\$	
			A0 3C 0014D	MOVL	DPC_ENTRY, R0	0764
		02	30 A3 D1 00152	MOVZWL	1(R0), CURRENT_LINE	
			42 11 00152	BRB	42\$	0765
08	A3	01	D0 00154	CMPL	CURRENT_MARK, #2	0770
			59 12 00158	BNEQ	47\$	
		02	30 A3 D1 0015A	MOVL	DPC_ENTRY, R0	0777
			68 11 00162	BRB	49\$	0778
0C	A3	01	A2 3C 00164	MOVZWL	1(R2), CURRENT_STMT	0783
			2B 11 00169	BRB	42\$	0784
		02	30 A3 D1 0016B	CMPL	CURRENT_MARK, #2	0789
			42 12 0016F	BNEQ	47\$	
		50	63 D0 00171	MOVL	DPC_ENTRY, R0	0797
		51	01 A0 9A 00174	MOVZBL	1(R0), R1	
14	A3	04	B341 9E 00178	MOVAB	@START PC[R1], CURRENT_PC	
			63 02 C0 0017E	ADDL2	#2, DPC_ENTRY	0798
			4C 11 00181	BRB	50\$	0611
		02	30 A3 D1 00183	CMPL	CURRENT_MARK, #2	0803
			2A 12 00187	BNEQ	47\$	
		50	63 D0 00189	MOVL	DPC_ENTRY, R0	0811
		51	01 A0 3C 0018C	MOVZWL	1(R0), R1	
14	A3	04	B341 9E 00190	MOVAB	@START PC[R1], CURRENT_PC	
			63 03 C0 00196	ADDL2	#3, DPC_ENTRY	0812
			34 11 00199	BRB	50\$	0611
		02	30 A3 D1 0019B	CMPL	CURRENT_MARK, #2	0817
			12 12 0019F	BNEQ	47\$	
		50	63 D0 001A1	MOVL	DPC_ENTRY, R0	0825
14	A3	04	A3 01 A0 C1 001A4	ADDL3	1(R0), START_PC, CURRENT_PC	
			1F 11 001AB	BRB	49\$	0826
		02	30 A3 D1 001AD	CMPL	CURRENT_MARK, #2	0834
			11 13 001B1	BEQL	48\$	
			7E D4 001B3	CLRL	-(SP)	0837
			8F DD 001B5	PUSHL	#623410	
00000000G	00	00098332	02 FB 001BB	CALLS	#2, TBK\$FAKE_MSG	
			3E 11 001C2	BRB	56\$	0838
		14	50 A3 01 A0 D0 001C4	MOVL	DPC_ENTRY, R0	0841
			63 05 C0 001C7	MOVL	1(R0), CURRENT_PC	
			05 31 001CF	ADDL2	#5, DPC_ENTRY	0842
		14	50 A3 01 A2 9A 001D2	BRW	1\$	0611
30	A3	50	C0 001D6	MOVZBL	1(R2), R0	0848
		02	D0 001DA	ADDL2	R0, CURRENT_PC	
		63	C0 001DE	MOVL	#2, CURRENT_MARK	0849
			1B 11 001E1	ADDL2	#2, DPC_ENTRY	0850
				BRB	55\$	0851

14	50	01	A2	3C 001E3	52\$: MOVZWL 1(R2), R0	0857
30	A3		50	CO 001E7	ADDL2 R0, CURRENT_PC	
		02	00	001EB	MOVL #2, CURRENT_MARK	0858
14	A3	01	FEA5	31 001EF	BRW 11\$	0859
30	A3		A2	CO 001F2	ADDL2 1(R2), CURRENT PC	0866
		02	00	001F7	MOVL #2, CURRENT_MARK	0867
63			05	CO 001FB	ADDL2 #5, DPC_ENTRY	0868
50		01	00	001FE	MOVL #1, R0	0869
		04	00201		RET	
		50	D4 00202	56\$: CLRL R0	0908	
		04	00204		RET	

; Routine Size: 517 bytes, Routine Base: TBK\$CODE + 00DC

```
642 0909 1 ROUTINE get_next_dpc (dst_rec_ptr) = ! gets next PC correlation record
643 0910 1
644 0911 1 ++
645 0912 1 Functional description:
646 0913 1 Reads DST records until either no more exist, a module end
647 0914 1 record is seen, or another PC correlation record is seen. In
648 0915 1 the first two cases, a FALSE return is taken. In the third
649 0916 1 case, the address of the new record and a success return is
650 0917 1 taken.
651 0918 1
652 0919 1 Inputs:
653 0920 1 dst_rec_ptr - pointer for new DST PC correlation record
654 0921 1
655 0922 1
656 0923 1 Implicit inputs:
657 0924 1 the routine tbk$get_nxt_dst is set up to return
658 0925 1 each DST record sequentially, and the last record
659 0926 1 that it returned was a PC correlation record.
660 0927 1
661 0928 1 Implicit outputs:
662 0929 1 tbk$get_nxt_dst is now set up to return the next record after
663 0930 1 the returned record or the next record after the record that
664 0931 1 caused this routine to fail.
665 0932 1
666 0933 1 Routine value:
667 0934 1 true or false
668 0935 1
669 0936 1 Side effects:
670 0937 1 none
671 0938 1 --
672 0939 1
673 0940 2 BEGIN
674 0941 2
675 0942 2 BIND
676 0943 2 dst_entry = .dst_rec_ptr : REF dst$record;
677 0944 2
678 0945 2 LOCAL
679 0946 2 dst_rec_id;
680 0947 2
681 0948 2 REPEAT
682 0949 2
683 0950 2 BEGIN
684 0951 2 dst_entry = tbk$get_nxt_dst (dst_rec_id);
685 0952 2 IF .dst_entry EQ 0
686 0953 2 THEN RETURN FALSE;
687 0954 2 IF .dst_entry [dst$b_type] EQ dst$k_modend
688 0955 2 THEN RETURN FALSE;
689 0956 2 IF .dst_entry [dst$b_type] EQ dst$k_line_num
690 0957 2 OR .dst_entry [dst$b_type] EQ dst$k_line_num_rel_r11
691 0958 2 THEN RETURN TRUE;
692 0959 2 END;
693 0960 1 RETURN FALSE;
END;
```

0000 00000 GET_NEXT_DPC:
00000000G 00 04 C2 00002 5E WORD Save nothing 0909
04 BC 00 01 5E DD 00005 1\$: SUBL2 #4, SP 0950
04 50 00 01 50 D0 0000E PUSHL SP
04 BC 00 19 50 D0 00012 CALLS #1, TBK\$GET_NXT_DST
04 13 00016 MOVL R0, @DST_REC_PTR
BD 8F 01 A0 91 00018 BEQL @DST_REC_PTR, R0 0951
12 13 0001D CMPB 1(R0), #189 0953
B9 8F 01 A0 91 0001F BEQL 3\$ 0955
07 13 00024 CMPB 1(R0), #185
B6 8F 01 A0 91 00026 BEQL 2\$ 0956
D8 12 0002B BNEQ 1(R0), #182
50 01 D0 0002D 2\$: MOVL #1, R0 0957
04 00030 RET
50 D4 00031 3\$: CLRL R0 0960
04 00033 RET

; Routine Size: 52 bytes, Routine Base: TBK\$CODE + 02E1

: 695 0961 1 END
: 696 0962 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
TBK\$OWN	60	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
TBK\$CODE	789	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(0)

Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	3	0	1000	00:01.7
\$255\$DUA28:[TRACE.OBJ]TBKLIB.L32;1	157	4	2	14	00:00.2
\$255\$DUA28:[TRACE.OBJ]STRUCDEF.L32;1	32	0	0	7	00:00.1
\$255\$DUA28:[TRACE.OBJ]TBKDST.L32;1	414	131	31	30	00:00.3

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:TBKDPC/OBJ=OBJ\$:TBKDPC MSRC\$:TBKDPC/UPDATE=(ENH\$:TBKDPC)

Size: 789 code + 60 data bytes
Run Time: 00:22.0
Elapsed Time: 01:14.4
Lines/CPU Min: 2618
Lexemes/CPU-Min: 20537
Memory Used: 232 pages
Compilation Complete

0401 AH-BT13A-SE
VAX/VMS V4.0

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